

FIG. 1

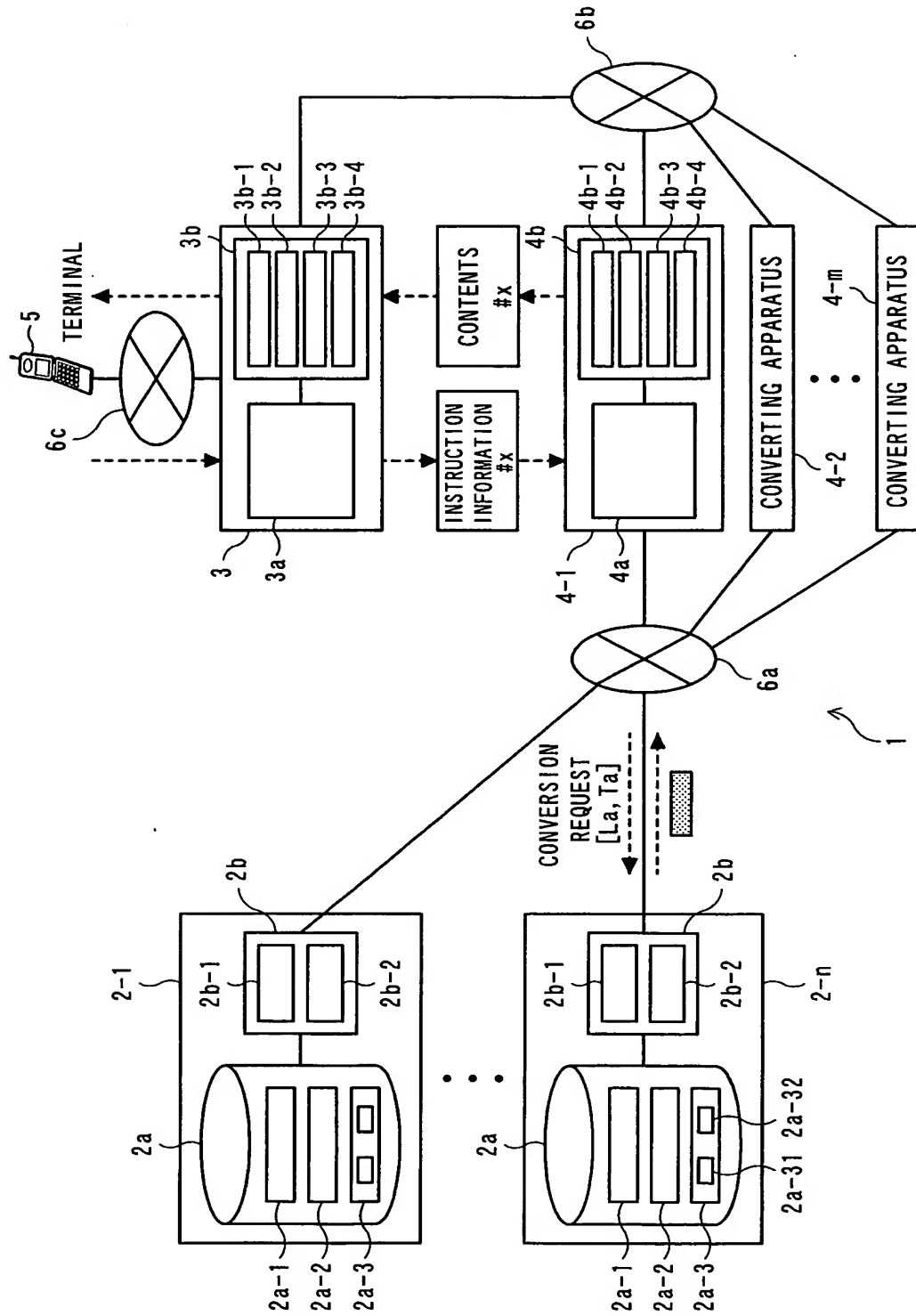


FIG. 2

```
<seq>
  <par dur=" 10s" >
    <video type=" WMV" src=" http://www.aaa.co.jp/av1.mpg" beginClip=" 5s " />
    <audio type=" WMA" src=" http://www.bbb.co.jp/av2.mpg" beginClip=" 10s" />
  </par>
  <par dur=" 20s" >
    <video type=" MPEG-4 Video" src=" http://www.aaa.co.jp/av1.mpg" beginClip=" 50m " />
    <audio type=" MPEG-1 Audio" src=" http://www.ccc.co.jp/av3.mpg" beginClip=" 30m " />
  </par>
</seq>
```

FIG. 3

SEGMENT ID	URL	MEDIA	REFERENCE START TIME	REFERENCE PERIOD
1	<a href="http://www.aaa.co.jp/av1.mpg">http://www.aaa.co.jp/av1.mpg</a>	WMV	5 s	10 s
2	<a href="http://www.bbb.co.jp/av2.mpg">http://www.bbb.co.jp/av2.mpg</a>	WMA	10 s	10 s
3	<a href="http://www.aaa.co.jp/av1.mpg">http://www.aaa.co.jp/av1.mpg</a>	MPEG-4 Video	50m	20 s
4	<a href="http://www.ccc.co.jp/av3.mpg">http://www.ccc.co.jp/av3.mpg</a>	MPEG-4 Audio	30m	20 s

FIG. 4

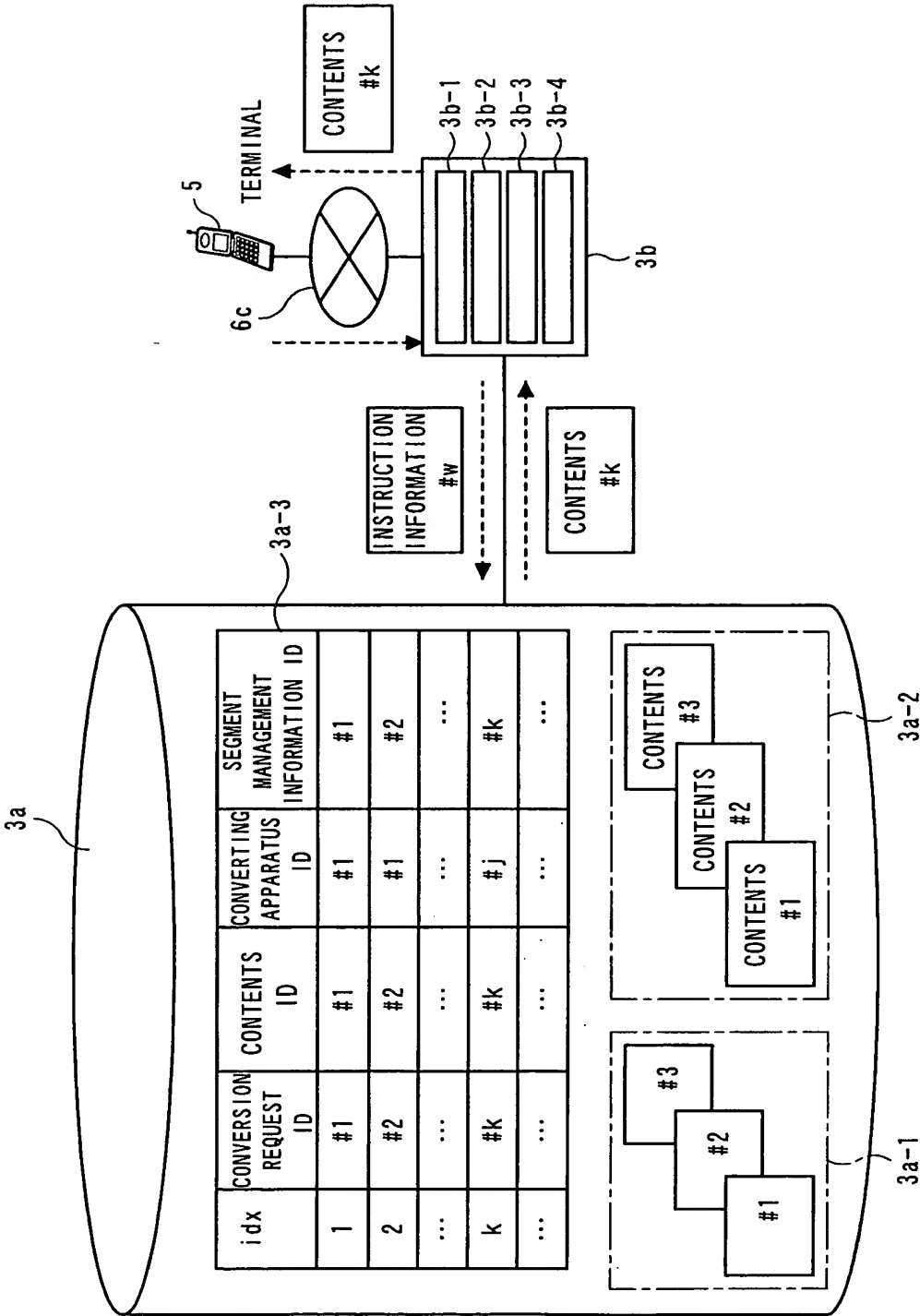


FIG. 5

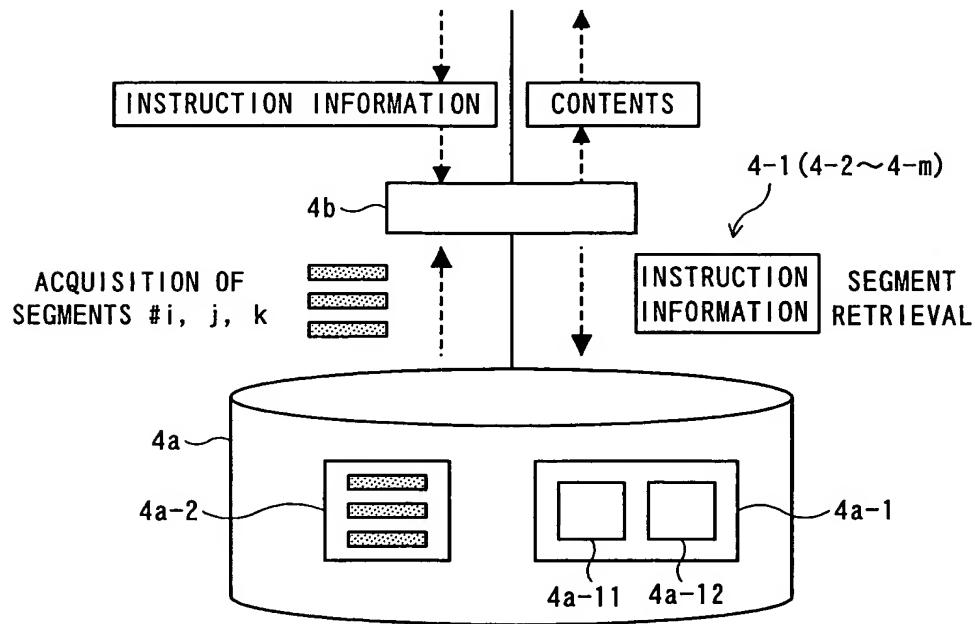



FIG. 6

4a-11

SERVER ID	URL	MEDIA	SEGMENT MANAGEMENT TABLE ID	...
1	http://www.aaa.co.jp/av1.mpg	Audio	1	...
2	http://www.bbb.co.jp/av2.mpg	Video	2	...
...	...	...	...	...
n	http://www.aaa.co.jp/avm.mpg	Audio	N	...
...	...	...	...	...

FIG. 7

4a-12



SEGMENT MANAGEMENT TABLE ID	SEGMENT ID	Cutin&cutout	ENCODING FORMAT	...
N	#1	[0, 15]	WMA	...
	...	...	...	...
	#m-1	[13, 18]	Mpeg-1 Audio	...
	#m	[15, 39]	Mpeg-1 Audio	...
	...	...	...	...

FIG. 8

2a-31

CONTENTS ID	URL	MEDIA	SEGMENT MANAGEMENT TABLE ID	...
1	http://www.aaa.co.jp/av1.mpg	Audio	1	...
2	http://www.bbb.co.jp/av2.mpg	Video	2	...
...	...	...	...	...
m	http://www.aaa.co.jp/avm.mpg	Audio	N	...
...	...	...	...	...

FIG. 9

2a-32

SEGMENT MANAGEMENT TABLE ID	SEGMENT ID	Cutin&cutout	ENCODING FORMAT	...
m	#1	[0, 1]	Mpeg-4 Video	...
	...	...	...	...
	#k-1	[10, 15]	WMV	...
	#k	[15, 30]	RAW	...
	...	...	...	...



FIG. 10

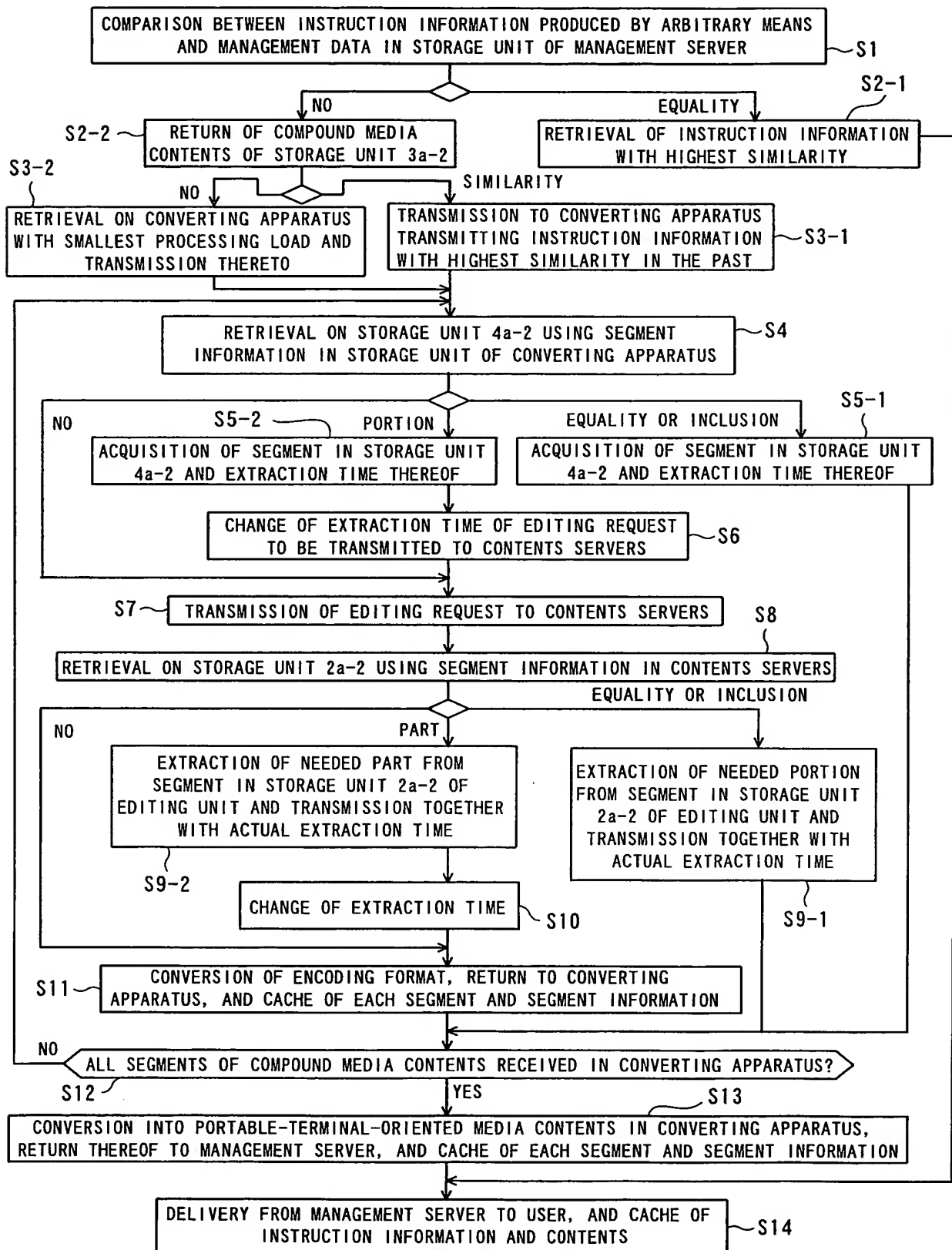


FIG. 11

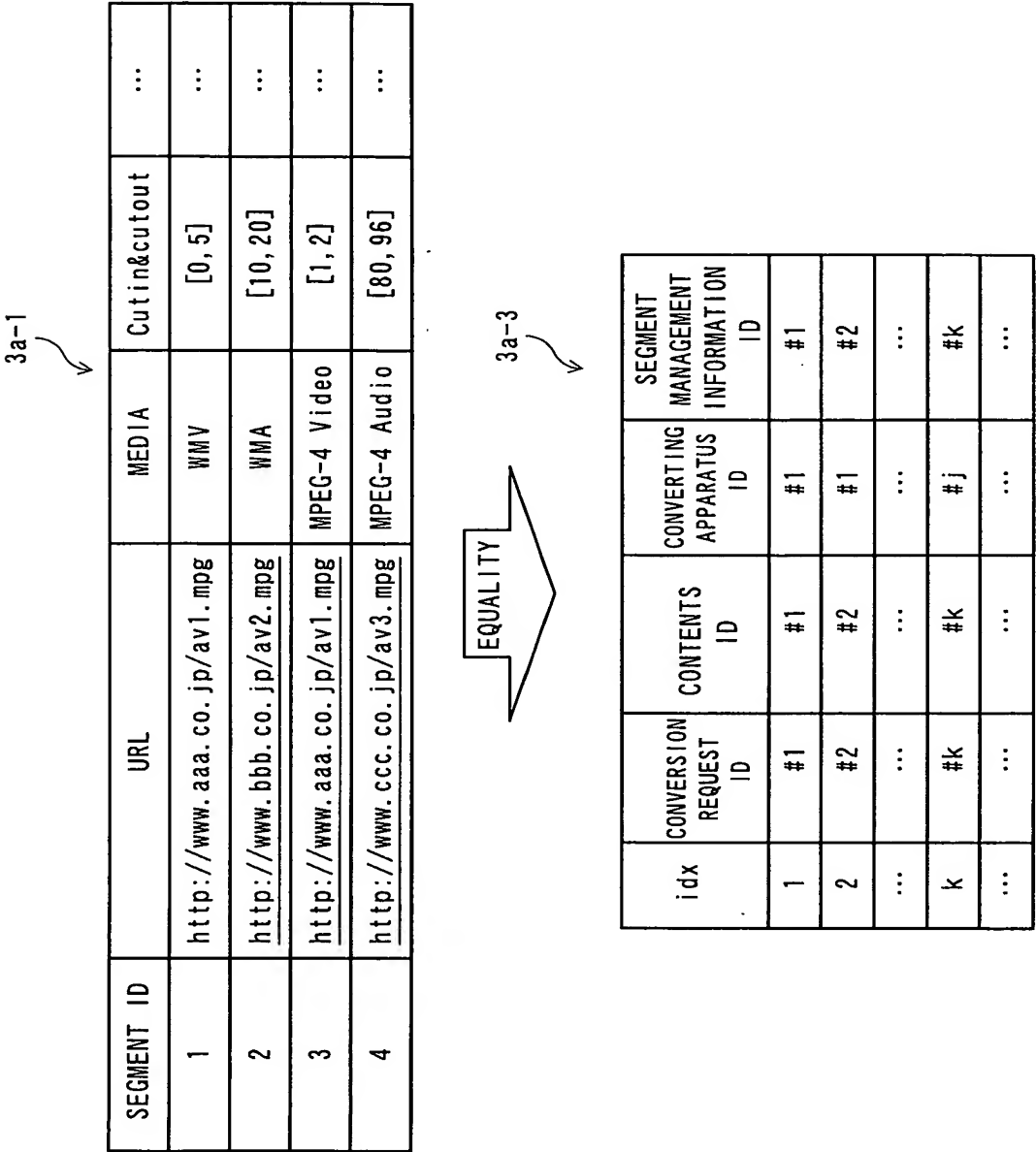


FIG. 12

3a-1

SEGMENT ID	URL	MEDIA	Cutin&cutout	...
1	http://www.ddd.co.jp/av1.mpg	WMV	[15, 25]	...
2	http://www.eee.co.jp/av2.mpg	WMA	[10, 20]	...
...	...	...	...	...
m	http://www.fff.co.jp/av3.mpg	MPEG-4 Video	[30, 45]	...

R1

REFERENCE TO SEGMENT TABLE FOR EACH CONTENTS,  
COUNT OF NUMBER OF SEGMENTS IDENTICAL TO INFORMATION,  
SUCH AS URL AND MEDIA, AND INCLUDING Cutin&Cutout

SEGMENT MANAGEMENT INFORMATION ID	SIMILARITY
#1	0
#2	3
...	...
#k	8
...	...

FIG. 13

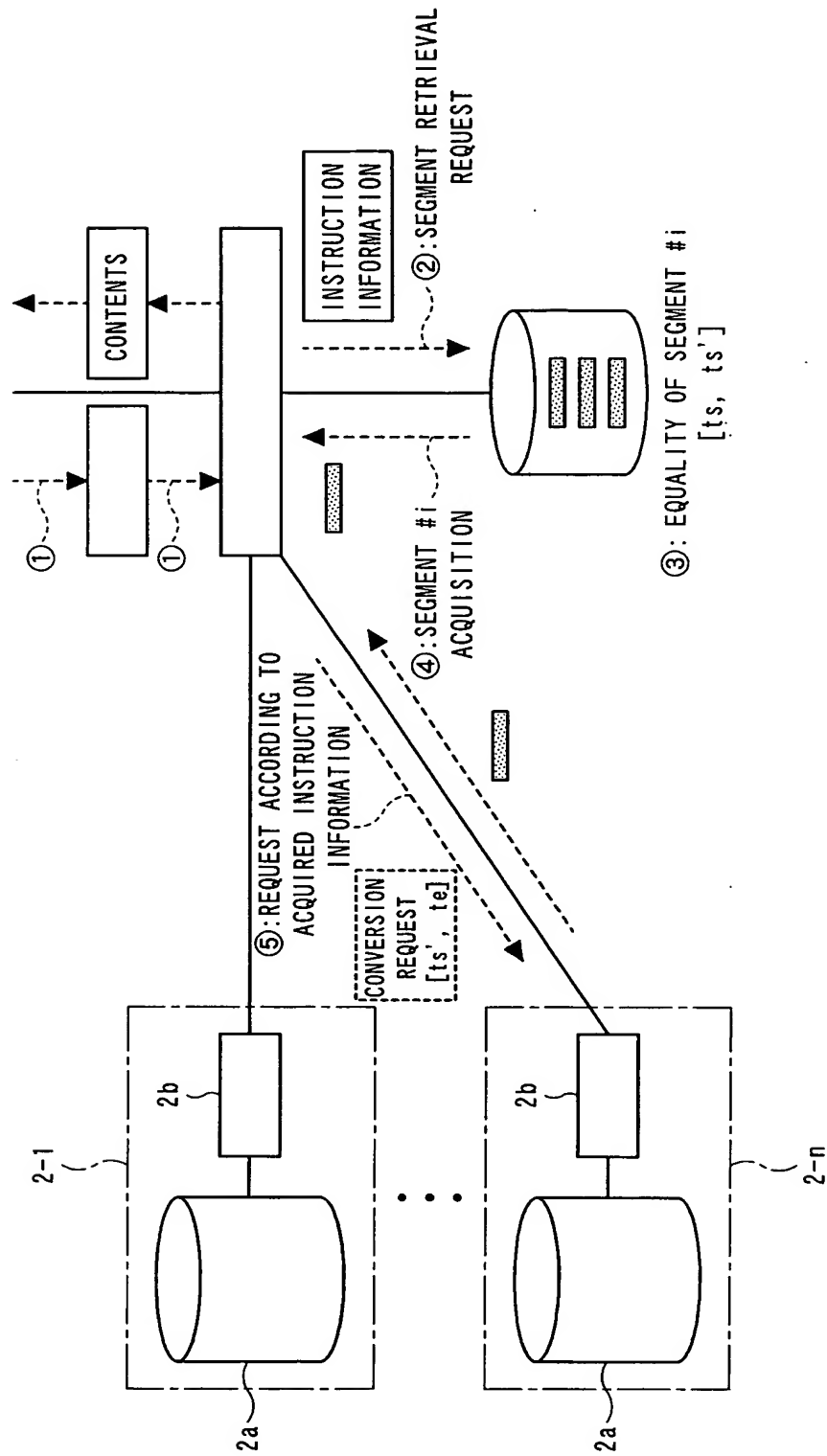


FIG. 14

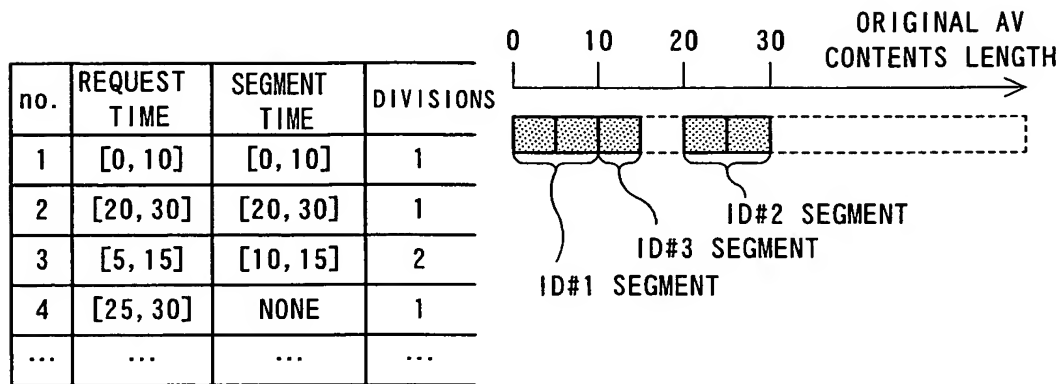


FIG. 15

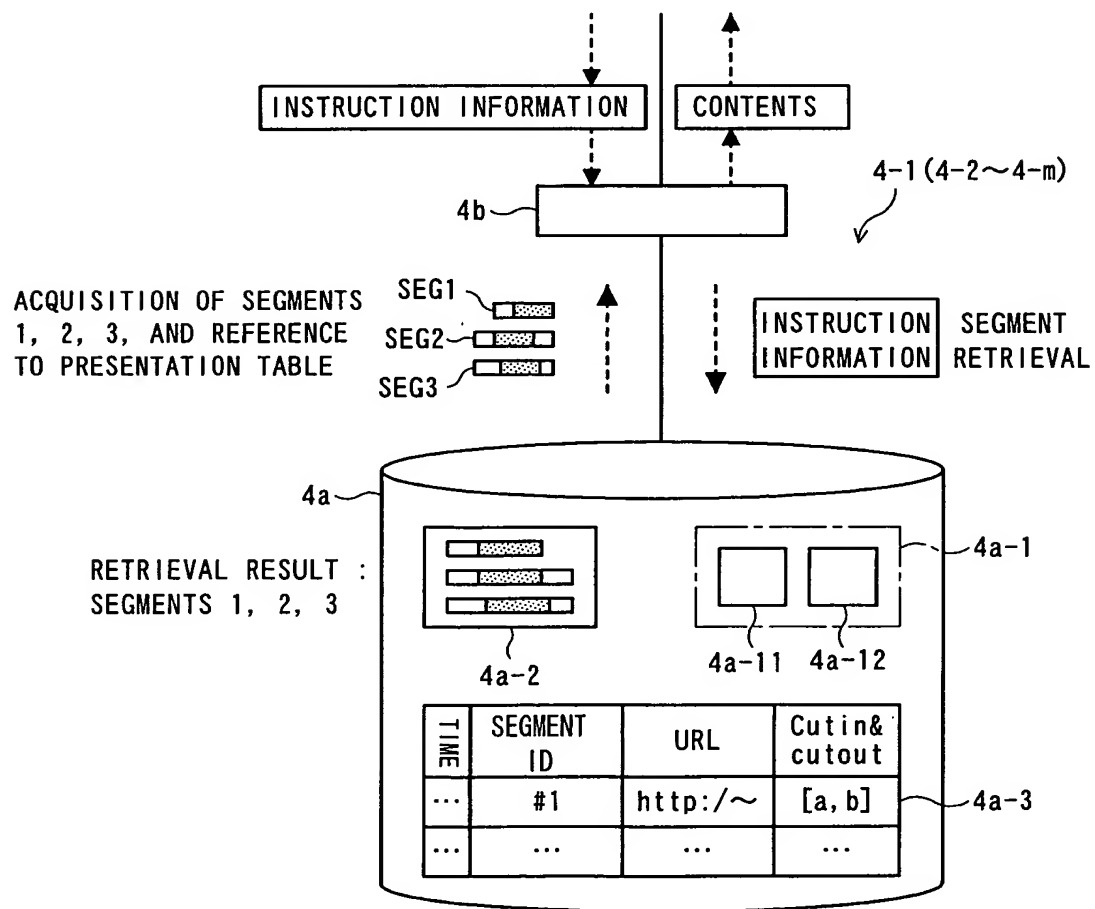


FIG. 16

4a-12

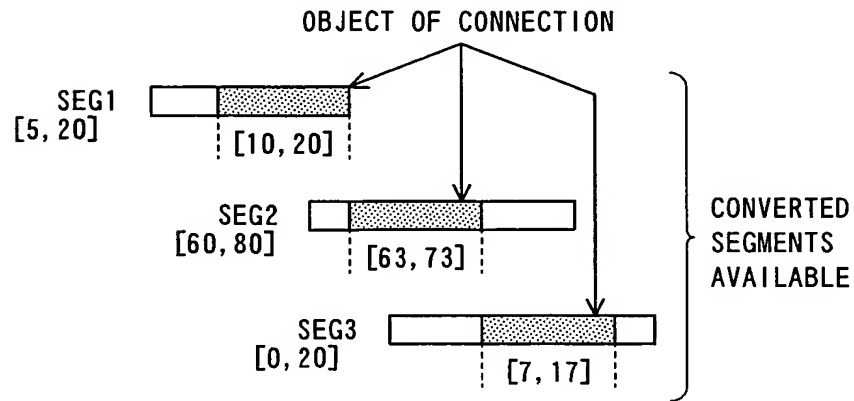
CONTENTS A TIME	SEGMENT ID	URL	Cutin&Cutout TIME OF SEGMENT	Cutin&Cutout TIME REQUESTED	...
[0, 15]	1		[5, 20]	[10, 20]	...
[15, 35]	2		[60, 80]	[63, 73]	...
[35, 55]	3		[0, 20]	[7, 17]	...

FIG. 17

4a-3

CONTENTS B PRESENTATION TIME	CONTENTS A TIME
[0, 10]	[0, 15]
[10, 20]	[15, 35]
[20, 30]	[35, 55]

FIG. 18



GENERAL CONNECTIONS, AND PUTTING IN ONE TRACK

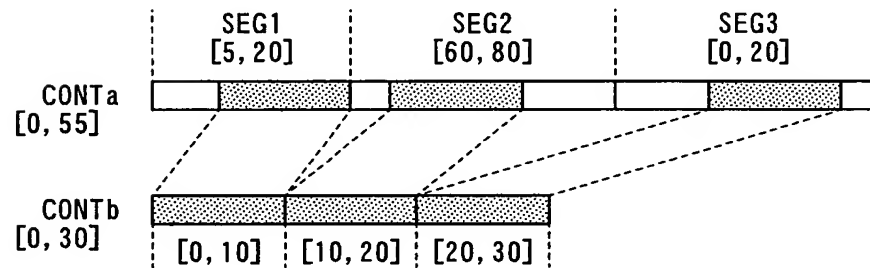


FIG. 19

CONVERTED SEGMENTS TO BE  
 CACHED IN CONTENTS SERVERS

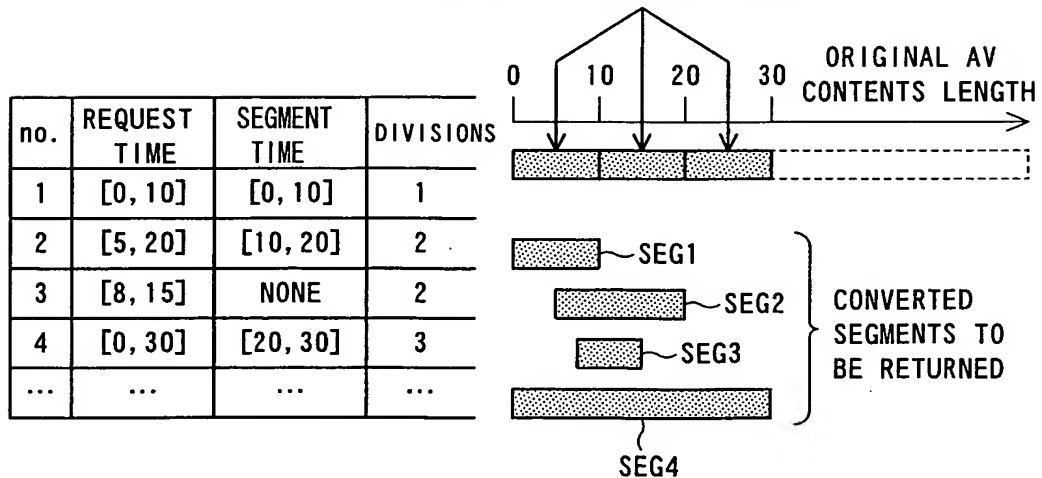


FIG. 20

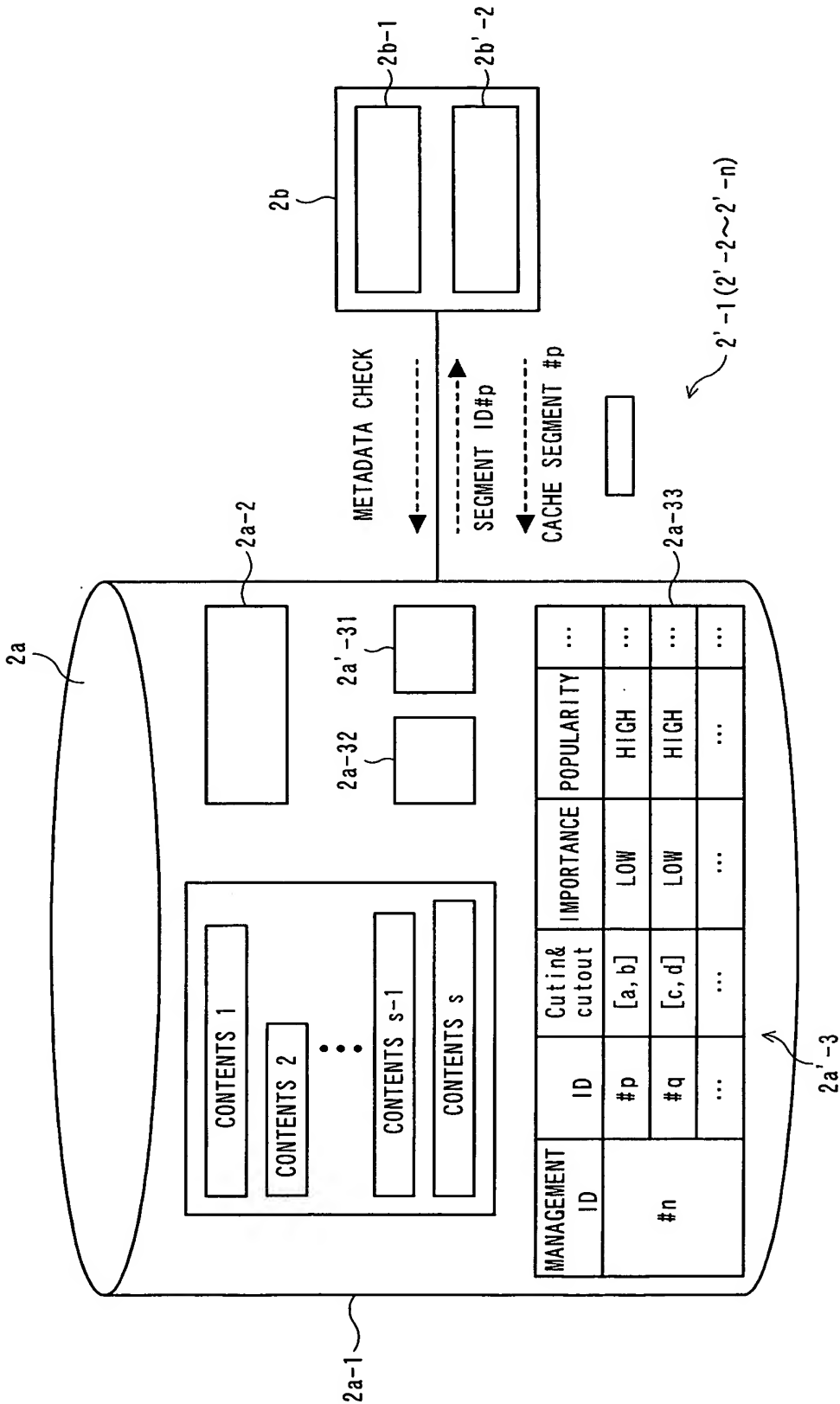





FIG. 21

2a'-31  


ID	URL	MEDIA	SEGMENT MANAGEMENT TABLE ID	METADATA TABLE ID	...
1	http://www.ccc.co.jp/av1.mpg	Audio	1	1	...
2	http://www.ddd.co.jp/av2.mpg	Video	2	2	...
...	...	...	...	...	...
m	http://www.fff.co.jp/avm.mpg	Video	M	M	...
...	...	...	...	...	...

FIG. 22

